

## PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



### Nkx-2.6 (R133) Peptide

Cat No.: BS3317P

#### Background

Members of the NK-2 family of homeodomain proteins are key regulators of growth and development in several tissues, including brain, heart and pancreas. Nkx-2.5, also designated cardiac specific homeobox protein (Csx), is a homolog of the *Drosophila tinman* protein and is essential for normal cardiovascular development. Expression of Nkx-2.5 during cardiomyogenesis is required for cardiac septation, in which a single atrium and ventricle are separated into four chambers. Nkx-2.5 binds to DNA as a monomer, a homodimer or as a heterodimer with Nkx-2.3 or Nkx-2.6, which suggests that the specific protein-protein interactions of Nkx-2.5 are involved in its transcriptional regulatory function. Nkx-2.6, also a homolog of the *Drosophila tinman* protein, is expressed in the caudal pharyngeal pouches, the caudal heart progenitors, the sinus venosus, the outflow tract of the heart and in a short segment of the gut between stages E8.5 and E10.5 of embryogenesis. Expression of Nkx-2.6 overlaps with that of Nkx-2.5 in the pharynx and heart. However, Nkx-2.6 mutant mice are viable and fertile, which suggests that Nkx-2.6 plays a compensatory function to Nkx-2.5.

#### Swiss-Prot

A6NCS4

#### Applications

Blocking

#### Specificity

This peptide can be used with studies using BS3317 Nkx-2.6 (R133) pAb.

#### Purification & Purity

Synthetic peptide Nkx-2.6 (R133). (Note: the amino acid sequence is proprietary). The purity is > 98%.

#### Product

1 mg/ml in DI water.

#### Storage & Stability

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

#### Research Use

For research use only, not for use in diagnostic procedure.